

## **REISSUE APPLICATION DECLARATION AND POWER OF ATTORNEY BY THE INVENTOR**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor of the subject matter which is described and claimed in patent number **5,829,516**, granted **November 03, 1998**, and for which a reissue patent is sought on the invention entitled

### **LIQUID COOLED HEAT SINK FOR COOLING ELECTRONIC COMPONENTS**

the specification of which is attached hereto.

I hereby state that I reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

I verily believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below. (Check all boxes that apply)

- ☐ by reason of a defective specification or drawing.
- ☒ by reason of the patentee claiming more or less than he had the right to claim in the patent.
- ☐ by reason of other errors.

At least one error upon which reissue is based is described as follows:

The claims covered less than applicant had the right to claim in the patent.

All errors corrected in this reissue application arose without any deceptive intention on the part of the applicant.

As a named inventor, I hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

MYRON COHEN, Reg. No. 17,358; THOMAS C. PONTANI, Reg. No. 29,763; LANCE J. LIEBERMAN, Reg. No. 28,437; MARTIN B. PAVANE, Reg. No. 28,337; MICHAEL C. STUART, Reg. No. 35,698; KLAUS P. STOFFEL, Reg. No. 31,668; EDWARD M. WEISZ, Reg. No. 37,257; JULIA S. KIM, Reg. No. 36,567; VINCENT M. FAZZARI, Reg. No. 26,879; ALFRED W. FROEBRICH, Reg. No. 38,887; KENT H. CHENG, Reg. No. 33,849; GEORGE WANG, Reg. No. 41,419; TZVI HIRSHAUT, Reg. No. 38,732, GERALD J. CECCHONY, Reg. No. 31,335; ROGER S. THOMPSON, Reg. No. 29,594; JOY I. FARBER, Reg. No. 44,103; and GEORGE J. BRANDT, JR., Reg. No. 22,021.

Address all telephone calls to Martin B. Pavane, Esq. at telephone No. (212) 687-2770.

Address all correspondence to:

Martin B. Pavane, Esq.  
Cohen, Pontani, Lieberman & Pavane  
551 Fifth Avenue, Suite 1210  
New York, New York 10176

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**Full Name of Sole or First Inventor: Ronald B. Lavochnik**

Inventor's signature: \_\_\_\_\_

Dated: \_\_\_\_\_  
Month/Day/Year

Residence: **24 Cedar Lane, Bow, New Hampshire, 03304**

Citizenship: **United States of America**

Post Office Address:

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In Re Reissue Application**

Original Patent No.: 5,829,516  
Original Issue Date: November 03, 1998  
Patentees: Ronald B. Lavochkin  
Title: Liquid Cooled Heat Sink for  
Cooling Electronic Components

Assistant Commissioner for Patents  
Washington, D.C. 20231

**REISSUE APPLICATION BY ASSIGNEE  
OFFER TO SURRENDER, ASSENT TO REISSUE**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Aavid Thermal Products, Inc. is now owner by assignment of the entire interest in U.S. Patent Number 5,829,516, entitled "Liquid Cooled Heat Sink for Cooling Electronic Components" issued November 03, 1998, to Ronald B. Lavochkin. Filed herewith is a Certificate under 37 CFR 3.373(b).

Aavid Thermal Products, Inc. hereby offers to surrender U.S. Patent Number 5,829,516.

Aavid Thermal Products, Inc. hereby assents to the accompanying application which seeks reissue of U.S. Patent Number 5,829,516.

Date: \_\_\_\_\_ Aavid Thermal Products, Inc.

Signature: \_\_\_\_\_

Name: \_\_\_\_\_  
Title: \_\_\_\_\_

Attorney Docket No.: 4136-20CPRE

## Patent

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

## In Re Reissue Application

Original Patent No.: 5,829,516

Original Issue Date: November 03, 1998

**Patentees: Ronald B. Lavochkin**

**Title:** Liquid Cooled Heat Sink for Cooling Electronic Components

Assistant Commissioner for Patents  
Washington, D.C. 20231

**CERTIFICATE UNDER 37 CFR 3.73(b)**

**Aavid Thermal Products, Inc.** (Name of Assignee), a (Type of Assignee, e.g. a corporation, partnership, university, government agency, etc.), states that it is:

- [x] the assignee of the entire right, title and interest; or
- [ ] an assignee of an undivided part interest

in the patent identified above by virtue of either:

- A. [x] An assignment from the inventor of the patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel 7971, Frame 0136 on 02/20/1996.

AND

- B. [x] A chain of title from the inventor, of the patent identified above, to the current assignee as shown below:

1. From: Aavid Engineering, Inc. To: Aavid Thermal Products, Inc.  
The document was recorded in the Patent and Trademark Office at  
Reel 9437, Frame 0018 on 07/23/1998.

- ☐ Additional documents in the chain of title are listed on a supplemental sheet.
- ☒ Copies of assignments or other documents in the chain of title are attached.

**[NOTE]:** A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 C.F.R. Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

Attorney Docket No.: 4136-20CPRE

## Patent

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: \_\_\_\_\_

Name: \_\_\_\_\_

**Title:** \_\_\_\_\_

Signature: \_\_\_\_\_

**Figure 1**



02820/115007  
UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

SEPTEMBER 05, 1996

PTAS

FISH & RICHARDSON P.C.  
RICHARD M. SHARKANSKY  
225 BRANKLIN STREET  
BOSTON, MA 02110-2804



\*100207865A\*

RECEIVE

SEP 11 1996

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

FISH & RICHARDSON P  
BOSTON, MA

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/20/1996

REEL/FRAME: 7971/0136  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

LAVOCHKIN, RONALD B.

DOC DATE: 01/31/1996

ASSIGNEE:

AAVID ENGINEERING, INC.  
ONE KOOL PATH  
LACONIA, NEW HAMPSHIRE 03247

SERIAL NUMBER: 08547196  
PATENT NUMBER:

FILING DATE: 10/24/1995  
ISSUE DATE:

DOROTHY RILEY, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

* No Docketing Required *
Reviewed By Practice Systems Initials: <i>hmm</i>
Reviewed By Billing Secretary Initials: _____



2-20-96



100207865

1  
PATENT

ATTORNEY DOCKET NO. 02820/115001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Ronald B. Lavochkin                      Art Unit:  
Serial No.: 08/547,196                                      Examiner:  
Filed : October 24, 1995  
Title : LIQUID COOLED HEAT SINK FOR COOLING ELECTRONIC  
         COMPONENTS

Commissioner of Patents and Trademarks  
Washington, DC 20231

RECORDATION FORM COVER SHEET

Please record the attached original document.

1. The conveying party is: Ronald B. Lavochkin.
2. The receiving party is: Aavid Engineering, Inc.,  
whose address is One Kool Path, Laconia, New Hampshire 03247.
3. The nature of the conveyance is an assignment  
executed on January 31, 1996.
4. The conveyance concerns the U.S. patent application  
Serial No. 08/547,196.
5. Direct correspondence regarding this document to  
the undersigned at the address below.
6. The total number of applications involved is: 1.
7. The total fee is \$40. A check for the fee is  
enclosed.
8. Please apply any additional fees or credits to  
Deposit Account 06-1050.

050 PK 06/06/96 08547196

1 581

40.00 CK

Date of Deposit February 16, 1996  
I hereby certify under 37 CFR 1.8(a) that this correspondence  
is being deposited with the United States Postal Service as  
first class mail with sufficient postage on the date indicated  
above and is addressed to the Commissioner of Patents and  
Trademarks, Washington, D.C. 20231.

Christie Powers

9. To the best of my knowledge and belief, the foregoing information is true and correct and the attached is the original document.

Respectfully submitted,

Date:

2/14/96



Richard M. Sharkansky  
Reg. No. 25,800

Fish & Richardson P.C.  
225 Franklin Street  
Boston, MA 02110-2804

Telephone: 617/542-5070  
Facsimile: 617/542-8906  
166825.B11



# ASSIGNMENT

For valuable consideration, I, Ronald B. Lavochkin, of Bow, New Hampshire hereby assign to Aavid Engineering, Inc., a New Hampshire corporation having a place of business at One Kool Path, Laconia, New Hampshire 03247, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent Application Serial No. 08/547,196, filed October 24, 1995 and entitled LIQUID COOLED HEAT SINK FOR COOLING ELECTRONIC COMPONENTS

this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and I agree for me and my respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at At Victor Thermal Technologies  
this 31<sup>st</sup> day of January, 1996

Ronald B. Lavochkin  
RONALD B. LAVOCHKIN

L.S.

STATE OF NH:  
COUNTY OF Belknap:  
:SS.

Before me this 31<sup>st</sup> day of January 1996, personally appeared Ronald B. Lavochkin known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

Philip A. Maheux  
Notary Public

My Commission Expires:

[Notary's Seal Here]

PHILIP A. MAHEUX, Notary Public  
My Commission Expires November 30, 1999



4136-20C1P

**UNITED STATES DEPARTMENT OF COMMERCE**  
**Patent and Trademark Office**  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

MARCH 25, 1999

PTAS

COHEN, PONTANI, LIEBERMAN & PAVANE  
EDWARD M. WEISZ, ESQ.  
551 FIFTH AVENUE, SUITE 1210  
NEW YORK, NY 10176

**UNITED STATES PATENT AND TRADEMARK OFFICE**  
**NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/23/1998

REEL/FRAME: 9347/0018  
NUMBER OF PAGES: 2

BRIEF: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

**ASSIGNOR:**

AAVID ENGINEERING, INC.

DOC DATE: 12/31/1997

**ASSIGNEE:**

AAVID THERMAL PRODUCTS, INC.  
143 NORTH MAIN STREET  
CONCORD, NEW HAMPSHIRE 03301

SERIAL NUMBER: 08547196  
PATENT NUMBER: 5829516

FILING DATE: 10/24/1995  
ISSUE DATE: 11/03/1998

VICTORIA JOHNSON, SUPERVISOR  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

P01772451

State of New Hampshire  
Department of State

CERTIFICATE

I, William M. Gardner, Secretary of State of the State of New Hampshire do hereby certify that AAVID ENGINEERING, INC., a New Hampshire corporation duly incorporated under the laws of the State of New Hampshire February 21, 1964, filed articles of amendment on December 31, 1997 changing the name to AAVID THERMAL PRODUCTS, INC..

IN TESTIMONY WHEREOF, I hereto  
set my hand and cause to be affixed  
the Seal of the State of New Hampshire,  
this 22nd day of May, A.D. 1998

*William M. Gardner*

William M. Gardner  
Secretary of State

